

What is claimed is:

1. A radial line slot antenna, comprising:
an antenna disk which has a slot element for
transmitting/receiving electromagnetic waves on the front
side and has a feeder section at the center of the front
5 which is the opposite side of the center of the rear side
a feeder disk where said antenna disk is mounted
contacting the rear side thereof, and a feeder section for
transmitting/receiving electromagnetic wave signals to/from
10 said antenna disk is disposed, wherein
when the diameter of said antenna disk is D and the
wavelength of the central frequency is λ , a marker with a
maximum size of about 0.10λ or less is disposed at an area
or distance of about $0.5 (D-\lambda)$ to $0.5 D$ from the center on
15 the rear side of said antenna disk, and
said feeder disk further comprises a through hole with
a size sufficient to view said marker at a position the same
as the position of said marker, and
said marker is a marker for positioning the antenna
20 disk on said feeder disk after confirming that said marker
is positioned at the center of said through hole.
2. The radial line slot antenna according to Claim 1,
wherein one or two or more said markers are created on a
same circumference in said area or distant from the center
25 of said antenna disk, and said through holes are disposed
corresponding to the positions of the respective markers.
3. The radial line slot antenna according to Claim 1,
wherein one or two or more said markers are created on
different circumferences in said area or distant from the

center of said antenna disk, and said through holes are disposed corresponding to the positions of the respective markers.

4. The radial line slot antenna according to Claim 1,
5 wherein said marker has a cross-sectional shape perpendicular to the longitudinal direction of the through hole of the feeder disk, including a circular, ellipse, star or polygon shape.

5. The radial line slot antenna according to Claim 1,
10 wherein in the through hole created on said feeder disk, an opening area of the shape created on the front side of said feeder disk, on which the rear side of said antenna disk contacts, is smaller than the opening area of the shape created on the rear side which is the viewing side.

15 6. The radial line slot antenna according to Claim 2, wherein a plurality of said markers disposed on said same circumference are disposed at an equal interval or different interval on a cocentric circumference, and said through holes are disposed corresponding to the positions of said
20 markers respectively.

7. The radial line slot antenna according to Claim 3, wherein one or two or more said markers created on said different circumferences are created on different circumferences at an equal interval or different interval,
25 and said through holes are disposed corresponding to the positions of said markers respectively.

8. The radial line slot antenna according to Claim 1, wherein said antenna disk further comprises a slot element

and a feeder section on a member which is dielectric on which metallic foil is disposed.

9. The radial line slot antenna according to Claim 8, wherein said member which is dielectric on which metallic foil is disposed is a printed board which is dielectric on which copper foil is pasted.

10. The radial line slot antenna according to Claim 1, wherein a conductor is disposed around the edge of said antenna disk.

11. The radial line slot antenna according to Claim 1, wherein the conductor around the edge of said antenna disk is said metal foil which is extended from the surface of said dielectric in the member which is dielectric on which metallic foil is disposed, or a conductive layer electrically connected with said metallic foil extended from the surface of said dielectric.

12. The radial line slot antenna according to Claim 1, further comprising a positioning section wherein when said antenna disk is arranged on said feeder disk, the antenna disk is arranged at a predetermined position before confirming that said marker is positioned at the center of said through hole.

13. The radial line slot antenna according to Claim 12, wherein said positioning section comprises a notch which is created at the edge of said antenna disk and a protrusion which is disposed on said feeder disk and is fitted into said notch.

14. The radial line slot antenna according to Claim 12, wherein said positioning section further comprises a

protrusion for latching which is created at the edge of said antenna disk, and a latch section which is disposed on said feeder disk and latches said protrusion for latching of said antenna.